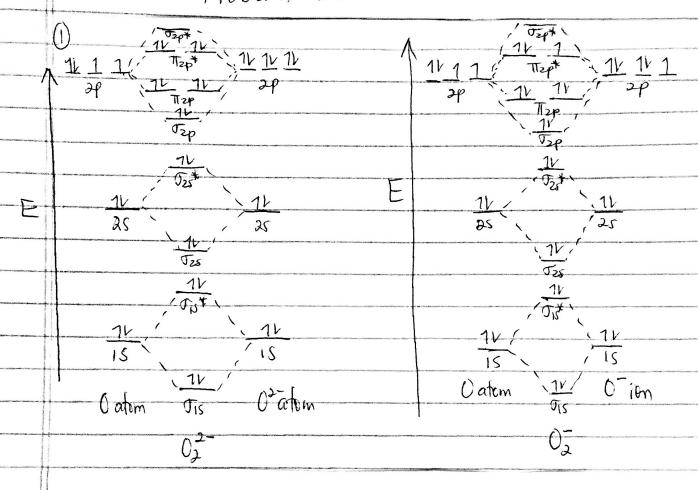
## CHU129 Problem Set #6



$$0_{3}^{2-}: 6.0. = \pm (10-8)=1$$
 $0_{3}^{-}: 6.0. = \pm (10-7) = \frac{3}{2} \text{ or } 1.5$ 

02 has a bond order of 1, while 02 has abond order of 1.5. For the same bonded atoms, the greater the bond order the shorter the bond, so 02 has the shorter bond.

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